

DRILL HOLES  
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BY: \$USER\$

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF RED LIGHT CAMERA EQUIPMENT TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD355 (FREDERICK AVE) NB AND SHADY GROVE WB.

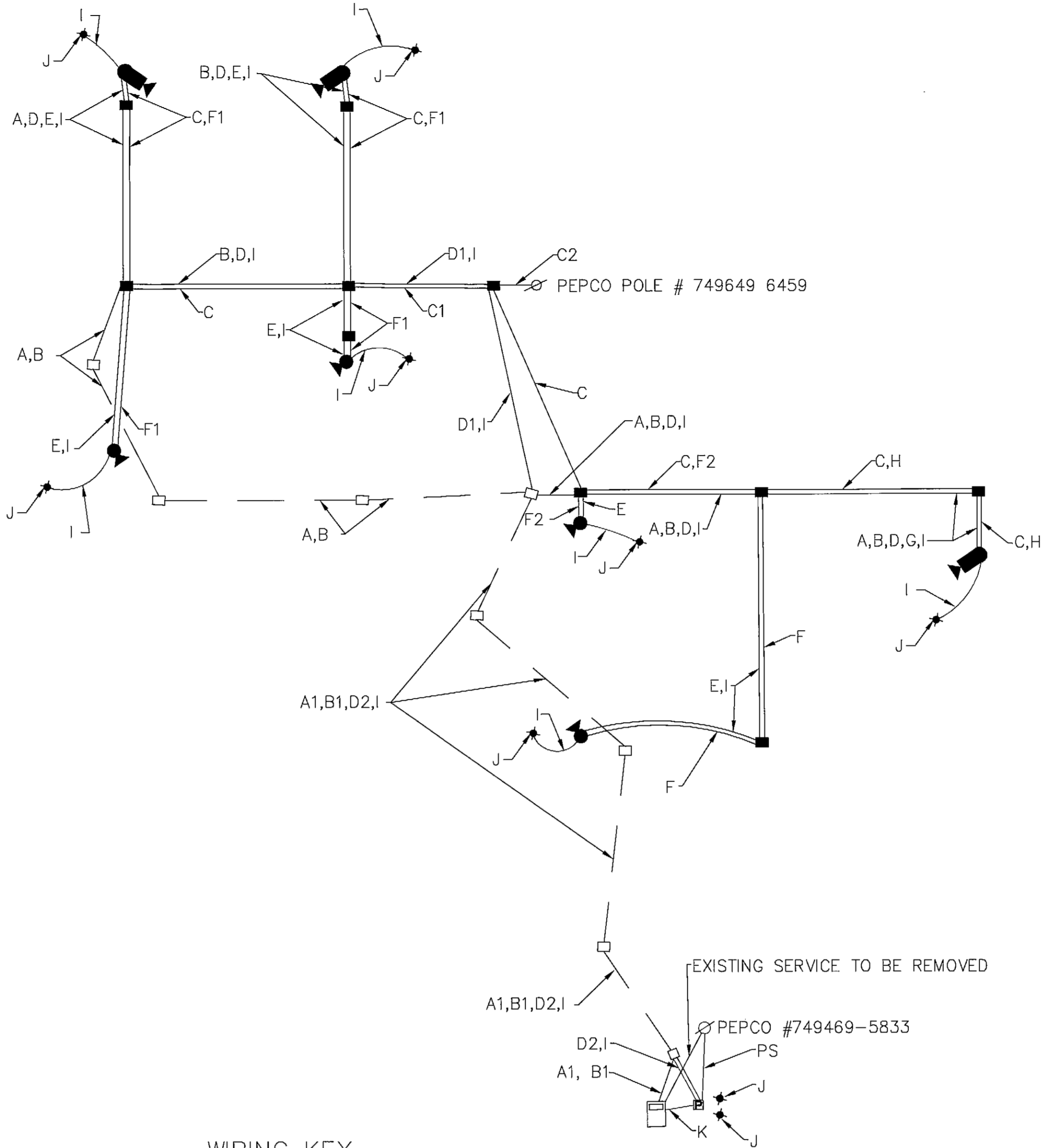
INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN UNCHANGED.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION  
NONE
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
5	CY	TEST PIT EXCAVATION
3	EA	RLCS-1 CAMERA ASSEMBLY
4	EA	RLCS-1 FLASH ASSEMBLY
850	LF	2 IN PVC CONDUIT (SCHEDULE 80) - TRENCHED
490	LF	2 IN PVC CONDUIT (SCHEDULE 80) - BORED
20	LF	4 IN PVC CONDUIT (SCHEDULE 80) - BORED
925	LF	115 V POWER SIGNAL PHASE-7 CONDUCTOR (#14) CABLE (FOR LANE 3 LEFT HAND TURN LANES)
925	LF	115 V POWER SIGNAL PHASE-7 CONDUCTOR (#14) CABLE (FOR THRU/RIGHT HAND TURN LANES)
9	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
925	LF	POWER (3) #10 CONDUCTORS THHN (HOT, NEUTRAL, AND GROUND)
4	EA	SENSYS RECEIVER ASSEMBLY
125	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
125	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
125	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
180	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
180	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
180	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
190	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
190	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
190	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
190	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
225	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
225	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
125	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
125	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
180	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
180	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
190	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
190	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
225	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
225	LF	115 V POWER 4 CONDUCTOR (#14) CABLE
925	LF	BARE COPPER GROUDING WIRE
35	LF	(3) 1-CONDUCTOR CABLE (NO. 8 AWG)



WIRING KEY

- A 7-CONDUCTOR CABLE (NO. 14 AWG)THRU LANES  
A1 (2) 7-CONDUCTOR CABLE (NO. 14 AWG) THRU LANES  
B 7-CONDUCTOR CABLE (NO. 14 AWG) LEFT HAND TURN LANE  
B1 (2)7-CONDUCTOR CABLE (NO. 14 AWG) LEFT HAND TURN LANE  
C COMCAST TO PROVIDE CABLE  
C1 (2) COMCAST TO PROVIDE CABLE  
C2 (3) COMCAST TO PROVIDE CABLE  
D (3) #10 CONDUCTORS THHN (HOT, NEUTRAL, GROUND)  
D1 (6) #10 CONDUCTORS THHN  
D2 (9) #10 CONDUCTORS THHN  
E (2) 4-CONDUCTOR CABLE (NO. 14 AWG)  
F (2) CAT 5e SHIELDED (BELDEN 7919a OR EQ.)  
F1 (3) CAT 5e SHIELDED (BELDEN 7919a OR EQ.)  
F2 (4) CAT 5e SHIELDED (BELDEN 7919a OR EQ.)  
G (4) 4-CONDUCTOR CABLE (NO. 14 AWG)  
H (6) CAT 5e SHIELDED (NO. 14 AWG)  
I BARE COPPER GROUNING WIRE (NO. 6 AWG)  
J PROPOSED GROUNDING ROD  
K (3) 1-CONDUCTOR CABLE (NO. 8 AWG)  
PS PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY PEPCO

NOTE: ALL CAT 5E CABLE TERMINATIONS WILL REQUIRE SENTINEL 106S08080058C34 ENDS AND A SENTINEL 90007 RATCHET HAND TOOL

Wayne Paul  
5-31-12

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY WITH ACS CONSTRUCTION MANAGER AND SHA INSPECTOR ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF RED LIGHT EQUIPMENT.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
4. THE CONTRACTOR IS TO BE AWARE THAT THE SHA HAS EXISTING UNDERGROUND CONDUITS, TRAFFIC SIGNAL INTERCONNECT CABLES AND ROADS SIGN IN THE VICINITY OF PROPOSED EQUIPMENT. ANY DAMAGE TO THESE FACILITY'S AS A RESULT OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS CLIENT TO REPAIR OR REPLACE.
5. CONTACT MONTGOMERY COUNTY SIGNAL SHOP AT LEAST 72 HOURS IN ADVANCE OF PROPOSED WORK TO ARRANGE FOR CABINET WIRING.
6. CONTACT ADRIAN PUGH SHA TRAFFIC CONTROL DEVICE INSPECTION SECTION AT LEAST 72 HOURS IN ADVANCE OF ANY WORK TO ARRANGE FOR INSPECTION SERVICES.

BW313M83  
MD 355 @ Shady Grove Road

**SHA**  
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

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WIRING KEY  
MD355 (FREDERICK RD.) NB AND SHADY GROVE RD. WB

APPROVALS	REVISIONS	SCALE	ADVERTISED DATE	CONTRACT NO.
TEAM LEADER	<input checked="" type="checkbox"/> RED LIGHT CAMERA INSTALLATION TIMS # 1346 05/01/12	DESIGNED BY	COUNTY	MONTGOMERY
ASST. DIV. CHIEF	<input type="checkbox"/> INSTALL EXCLUSIVE LEFT TURN SIGNALS FOR SB MD 355	DRAWN BY	LOGMILE	
DIVISION CHIEF	<input type="checkbox"/> NEW GEOMETRICS, REBUILD SIGNAL AND ADDED PEDESTRIAN SIGNALS	CHECKED BY	TIMS NO.	
OFFICE DIRECTOR		F.A.P. NO.	TOD NO.	
		DRAWING NO.	OF	SHEET NO. 2 OF 2

PLOTTED: \$DATE\$  
FILE: \$FILES\$